REPORT RESUMES

ED 018 863

80

EA 001 269

A CATALOG OF ANALYSIS OF VARIANCE PILOT STUDIES EMPLOYING DATA FROM THE OFFICIAL FLORIDA TEACHER EVALUATION FORM. PART II.

BY- DANIEL, K. FRED
FLORIDA ST. DEPT. OF EDUCATION, TALLAHASSEE
REPORT NUMBER ESEA-5
PUB DATE 17 MAY 67
MULTI-STATE TEACHER EDUCATION PROJECT, BALTIMORE, MD.
EDRS PRICE MF-\$0.50 HC-\$3.52
86P.

DESCRIPTORS- *TEACHER EVALUATION, STATE DEPARTMENTS OF EDUCATION, TEACHER EDUCATION, *PRINCIPALS, *ELEMENTARY SCHOOL TEACHERS, *SECONDARY SCHOOL TEACHERS, *TEACHER RATING, BACHELORS DEGREES, MASTERS DEGREES, ANALYSIS OF VARIANCE, STATE PROGRAMS, TALLAHASSEE,

TO DETERMINE THE APPLICABILITY OF ELEMENTARY AND SECONDARY SCHOOL TEACHER RATINGS ASSIGNED BY PRINCIPALS ON THE 1965-66 OFFICIAL FLORIDA TEACHER EVALUATION FORMS, ANALYSES OF VARIANCE WERE MADE FOR FOUR SETS OF INDEPENDENT VARIABLES AS FOLLOWS--(1) LEVEL AND RANK FOR A SAMPLE OF 2 SECONDARY AND 92 ELEMENTARY TEACHERS WITH BACHELOR'S DF JULES AND 92 SECONDARY AND 92 ELEMENTARY TEACHERS WITH MASTER'S DEGREES, (2) SUBJECT TAUGHT (ART, MUSIC, MATHEMATICS, OR ENGLISH) AND SEX FOR A SAMPLE OF FIVE MALE AND FIVE FEMALE TEACHERS FOR EACH SUBJECT, (3) RANK AND LEVEL FOR A SAMPLE OF 52 SECONDARY AND 52 ELEMENTARY TEACHERS WITH MASTER'S DEGREES AND 52 SECONDARY AND 52 ELEMENTARY TEACHERS WITH BACHELOR'S DEGREES, AND (4) SUBJECT TAUGHT AND YEARS OF EXPERIENCE FOR A SAMPLE OF NINE ENGLISH AND NINE MATHEMATICS TEACHERS FOR SIX TIME PERIODS OF EXPERIENCE, RANGING FROM ZERO TO 41 YEARS. CATEGORIES RATED BY PRINCIPALS INCLUDED TEACHER PERSONALITY AND SOCIAL CHARACTERISTICS AND INSTRUCTIONAL CAPABILITIES. WHILE EXTENSIVE TABULATIONS OF DATA INDICATED THAT FACTORS TESTED DID NOT ACCOUNT FOR A SIGNIFICANT PORTION OF THE VARIANCE OBSERVED IN THE RATINGS, LEVEL OF INSTRUCTION ACCOUNTED FOR THE GREATEST PROPORTION OF SIGNIFICANT RESULTS. EA 001 261 IS A RELATED DOCUMENT. (JK)



A CAPALOG OF ANALYSTS OF VARIANCE PILOT STUDIES EMPLOYING DATA FROM THE OFFICIAL PLORIDA TEACHER EVALUATION FORM PART IT

69: 100

ERIC

Full Text Provided by ERIC

A CATALOG OF ANALYSIS OF VARIANCE PILOT STUDIES EMPLOYING DATA FROM THE OFFICIAL FLORIDA TEACHER EVALUATION FORM

PART II

by K. Fred Daniel

Multi-State Teacher Education Project
State Department of Education
Tallahassee, Florida
May 17, 1967

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE OFFICE OF EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL OFFICE OF EDUCATION POSITION OR POLICY.



PREFACE: "THE MULTI-STATE TEACHER EDUCATION PROJECT"

The Florida State Department of Education is currently participating in the Multi-State Teacher Education Project. This project was initiated to strengthen programs of in-service and pre-service teacher education. It calls for greater involvement of state departments of education and enhanced communication and cooperation among the states in assisting teacher preparation institutions and local school districts to provide quality teachers and teaching. The seven participating states—Florida, Maryland, Michigan, South Carolina, Utah, Washington, and West Virginia—are each carrying out separate but related phases of the total Project.

Florida is undertaking analyses and interpretations of a large volume of data on teachers and on schools which have been assembled. Most of these data are stored on magnetic tape for retrieval and processing via computer. This document reports one phase of these analyses. A related conceptual study dealing with teacher evaluation has also been completed and is available under the title, "Statewide Teacher Evaluation: A Conceptualization of a Plan for Use in State Educational Leadership."

In addition, this State is preparing documents dealing with various aspects of teacher education, particularly with professional laboratory experience, and also making use of materials prepared in the other States.

Meetings and conferences have been held to disseminate and evaluate ideas from these sources and to secure further suggestions and new ideas.

The Multi-State Teacher Education Project is supported by a grant from the U. S. Office of Education under Section 505, Title V, Elementary and Secondary Education Act of 1965.



TABLE OF CONTENTS

| Preface: The Multi-State Teacher Education Project | |
|--|------------|
| Introduction | 1 |
| Official Florida Teacher Evaluation Form | 5 |
| Composite Summaries of All Analyses | ϵ |
| The Effects of Rank and Level Upon Ratings Assigned by Principals on the 1965-66 Official Florida Teacher Evaluation Forms in a Sample of Elementary and Secondary Teachers Composite Summary for Sample Source Tables | 9 |
| The Effects of <u>Subject Taught</u> and <u>Sex of Teacher</u> Upon Ratings Assigned by Principals on the 1965-66 Official Florida Teacher Evaluation Forms in a Sample of <u>English</u> , <u>Mathematics</u> , <u>Music</u> , and <u>Art Teachers</u> Composite Summary for Sample Source Tables | 27 |
| The Effects of Rank and Level Upon Ratings Assigned by Principals on the 1965-66 Official Florida Teacher Evaluation Forms in a Sample of Elementary and Secondary Teachers Composite Summary for Sample Source Tables | 45 |
| The Effects of Subject Taught and Years of Experience Upon Ratings Assigned by Principals on the 1965-66 Official Florida Teacher Evaluation Forms on a Sample of English and Mathematics Teachers Composite Summary for Sample Source Tables | 63 |



INTRODUCTION

This report is a continuation of an earlier collection of analysis of variance results. The following excerpt from the Introduction to Part I relates to the present report also.

Excerpt from Introduction to Part I

This study was undertaken to isolate factors which can account for variance in ratings assigned teachers on the evaluation form adopted by the Florida State Board of Education (Form TE-1). This form was devised in order to implement Chapter 231.29 of the Official Florida Statutes which requires that all instructional personnel be evaluated annually and that copies of these evaluations be filed with the State Superintendent. 1

In initiating this study, it was assumed that the rating which a teacher receives is a function of (a) the status of the qualities or traits he possesses, (b) the situation(s) in which he was observed, (c) the status of the qualities or traits of the evaluator (i.e., his biases), and (d) interaction among (a), (b), and (c).

How These Analyses Differ from Those Reported in Part I

The data reported herein summarizes analyses in which variables in the teaching-learning situation were selected on an <u>a priori</u> basis and tested for their contributions to variance. With one exception,



¹This statute was amended in the 1967 legislative session. It is no longer required that the same form be used by all counties nor that copies of the evaluation be filed with the State Superintendent.

these are the same variables which were tested in Part I.

The exception is the "evaluator" variable. Results of the analyses reported in Part I indicate that the only factor which consistently contributes a substantial portion to the variance is the evaluator. In other words, differences in evaluation practices of individual evaluators is the primary factor to which differences in ratings assigned to teachers can be attributed. It was stated that if other factors studied do actually contribute significantly to the variance, it will be necessary to employ larger samples before this can be detected. The analyses reported in the present volume were designed to control the "evaluator" variable and to provide for the utilization of larger samples.

Model Schools and Standard Scores

of having all subjects in a given column or row of cells be persons who were evaluated by the same evaluator. Thus, the evaluator factor and the problem of sample size were interrelated. The procedure adopted for controlling the evaluator factor and increasing the sample size consisted of (1) selecting each sample from teachers in a group of model schools in a single county (rather than from a single school) and (2) converting the ratings received by these teachers to standard scores.

To identify model schools, every school in a given county was rated on a five-point scale according to the overall quality of instruction which is offered in that school. These ratings were performed by the central office staffs in three selected Florida counties. The category on the five-point scale into which the greatest number of schools were placed represented the mode. The schools in this category represented the model group of schools for that county. In selecting a

sample for any one analysis, the population was limited to teachers from one county only.

The ratings assigned these teachers were then converted to standard scores. Since the overall quality of the teaching in each of the model schools was assumed to be comparable, it was also assumed that differences in rating tendencies of individual evaluators would be controlled if the ratings assigned by all principals were placed on the same scale. This could be accomplished by transforming the ratings from each school so that means and standard deviations from all schools would be equal. This method of converting ratings to standard scores was employed, thus eliminating the "evaluator" variable. It should be noted that the means and standard deviations used with each individual score were those of the particular school in which that teacher taught.

Results

The factor accounting for the greatest proportion of significant results was level of instruction (elementary or secondary). The tests which used level of instruction as one effect were run using rank of certificate (bachelors degree or masters degre) as the other effect. The results indicate that when the effect of rank is taken into account also, the level of ratings assigned to elementary teachers differs from the level assigned to secondary teachers.

Two-thirds of the significant results were obtained with the tests utilizing certificate rank and level of instruction as factors.

These tests comprised only half of the total tests conducted. There was virtually no interaction detected between certificate rank and level of instruction. Nor was there interactions between the other factors.

When the results of the analyses reported herein are compared with those reported in Part I, it appears that increasing sample size



possible significant F ratios in the analysis reported in Part I; 192 of these involved the evaluator effect (either alone or as a factor in interaction) and 176 did not involve the evaluator effect. The factors involving evaluator were significant 26% of the time. The factors not involving evaluator were significant 8% of the time. The 8% figure can be compared with the proportion of significant results reported in the present volume. Tests utilizing raw scores yielded significant F ratios 14% of the time and tests utilizing standard scores yielded significant results 18% of the time. The percentage figures were obtained by dividing the total number of F ratios which were significant at the .05 level by the total number of F ratios calculated.

It should be noted, finally, that converting raw scores to standard scores had very little effect on the number or pattern of significant results obtained. This fact can be observed by comparing the raw score tables and standard score tables which are presented adjacently in this report.

OFFICIAL FLORIDA TEACHER EVALUATION

The form on the following page is the 1965-66 version of
the instrument used to gather data for the analyses summarized in
this report. The earlier versions of the form which were employed in
the analyses do not differ substantially from the 1965-66 version.



| M | - | NAME O | PLRS | OH E | VĀLUĀT | ED | | * | | - C | ודאניכ | NAME | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | - | scнос | L NAM | E | | |
|-------------|-------------------------|-------------|----------|----------|-----------------|-----------|----------|----------------|--------------------------|---------------|------------|---------------------|--|-----------------------|---|---------------|-----------------------------|------------------|------------|----------------|-------------|
| | | | | | | - | =8== # | | _ | | 1 1 | | | | | | f Education | Number | | | — — ∷e:: |
| | 1 | 2 | .i. | 4 | ć .u | S | ú | 7 | 8 | 9 | | a | 1 | : 2 | 3 : | . 4" | ∜ 57 | - , 0 | 7 | 8 | 3 |
| > | 1 | 2 | \$ | 4 | M 2 | ថ | c | 7 | 8 | u | | o | 1 | 2. | :3 | - 4 .* | ~`5** | :::6** | ::7 | 22822 | ::9 |
|) | , | 2. | 3 | 4 | h m o b | 5. | . 6 | 7 | ಕ | 9 | 1 | o | 1 | 2. | 3-^ | *:4: | 1571 | ~ =6 := | 227.12 | ==81E | ::9 |
| •• | • | - | | | 0 6 | | • | • | | | | | | | | | |) man | a | **** | ••• |
|) | 1 | 2 | f | 4 | 1 , | 5. | 6 | 7 | 8 | 97 . | | o | - 1 | .12:1 | `3- ` | : :4 | *.5.7 | 1671 | 1771 | # 18 #1 | ::9 |
| 0 | 1 | 2 | 3 | .1 | | 5 | 6 | 7 | 8 | 7 | | · o· | 1 | 2 ⁻ | · .3. | 4 | 17 5 .7 | :,6== | ::7:: | 1:8:: | ::9 |
| o | 1 | 2 | 3 · | 4 | County Numbe | | G | 7 | 3 | 9- | | ο. | 1 | 2 | : 3: | 4 - | * * 5 * ² | ~: 6 .: | ::7: | 21812 | ::9 |
| | | | | | | | | | | | - | | | | | | | ::6:: | | 17877 | -:9 |
| | | | | | | | | | | | | ٥ | 1 | ··· 2. | ∴3 ° | . 4 .1 | 3 | ***** | a-/a+ | =+0-= | -3 |
| vith < | n ordî | ary lead | pencil | (do | not use | ink) ma | irk each | item | below fo | r the | | 0 | 1 | 2 . | ~ 3 | 4 : | ::5:: | ::6::: | ::7: | 11811 | ==8 |
| hear | y and | dark. Th | e origi | nal o | f this e | valuatio: | sheet | should | or Poor. I I be maile | ed to | | .0 | 1" | 2 - | -3% | -4- | **5** | :-6:: | ::7": | ::8:: | ::9 |
| tate ! | Departn | ent of E | ducatio | n no | t later i | han Jul | y 10 of | each | year. If Not Fold | em- | | | | | | | | | | | |
| | 5 , C/1111 | idica, iiii | cpc | | | | | | ,,,,,, | | į | | | | | REA IS RE | SERVED FOR | RUTUR | E USE | | |
| | an Harrison of State of | | | | | | | | | | | | | | | | | | | | |
| | 1 1 | ERSONAL | QUAL | IFICA | TIONS | | A | . Is t | Healthy a | nd Em | otionall | y Stable | | | | | | SUP. | SAT. | POOR | |
| | | | | | | | , | 3 Ic N | Veat and | Well G | roomec | l In App | earanc | e | | | | 100 TO 100 EV N | | | |
| | | | | | | | | | | | | | | | | | | 100 May 100 mark | * | | |
| | | | | | | | (| C. Thir | nks Logica | ally cine | d Make | s Practic | ai Deci | sions "". | | | | | 12722 | ***** | |
| | | | | | | | 1 | D. Is A | Accurate | • • · · · · · | . . | | | | | | | | | | |
| | | | | | | | | FICE | Punctual | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | F. Tak | es Necess | ary an | d Appr | opriate / | Action | On His (| Own | | | 2222 | | | |
| | | | | | | | (| 3. Is I | Dedicated | to His | Profes | sion | | | | | | × 9 × 4 = | | 75.75 | |
| , | 11 : | RELATION | SHIDS. | WITH | LOTHER | s | | A 1. 5 | Respected | hy Pu | nils . | | - | | | | | | | | |
| | ,, | CCATION | 51111) | **** | | • | | | | | | | | | | | | | | | |
| | | | | | | | | | - | | | | | | | | | -1111 | | | |
| | | | | | | | ' | C. Is Co | Friendly mmunity, | Other | Staff / | i, Sympo Nembers | & Adr | wiin ninistrat | ion | | | | ::::: | ::::: | |
| | | | | | | | | D. Is <i>I</i> | Morally U | Jpright | * | # | | | | ~~~~~ | | YES | NO | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | E, Is | Profession | natty E | thical . | #- # - H | - | *** | | | | | | | |
| | ш | EACHING | 5 - SK!! | is A | BILITY | | | A. Kno | ow. Subje | ect Mat | ter | ***** | | # Mg ∨ #M 94 ## · | | | | SUP. | SAT. | POOR | ₹ |
| | | | | | | | | B. Tak | kns Action | to Im | prove | Himself. | 4 to to the set | | | ***** | | . ===== | *** | M + P = P | |
| | | | | | | | | C. Use | es Instruct | tional i | Materia | ds and I | esson | | | | | | | | |
| | | | | | | | | Pio | ans Effecti | ively | | | | ****** | 164 m 16m 16m 16m 16m 1 | | | # # · · · · · | ******* | | |
| | | | | | | | (| D. Dev | velops Pu | pil Inte | erest ar | nd Eager | rness to | o learn. | | | ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | * - * * | ***** | *** | |
| | | | | | | | | E. Ma | aintains P | upil Co | .ntrol | - 40 | | 4.0. 2 | | | | **** = B | ===== | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | r. Use | es Materio | ai in (| .ບການໄຕ | nve tolo | ier ", , | | | | * * * * * * * * * * * * * | | | ~ = 17 17 27 | |
| | IA | MOULD Y | OU RE | COM | MEND T | HIS TEA | CHER F | OR RE- | -EMPLOYA | VENTS | * - * | | | | | | | YES | NO | | |
| | ٧ | Status a | f Teac | her. | Principa | ıl, Supe | rvisor o | or | A. Rea | ppointe | ·d | | | ~ - # = # * # | _ * ~ * * * * | | | | | | |
| | • | Junior C | | | | | | | | | | | | | | | | | | | |
| | | Year. | | | | | | | B. Lea | ve Gra | nted | | | | 8 4 - 34 4 44 44 | | | - H - H - H | **** | | |
| | | | | | | | | _ | C. Resi | igned*. | · * | - · # · # · | | ********** | | ******** | | | **** | | |
| HAL | | - | | | - * | | | - | D. Mak | e no e | ntry. Fo | or machi | ine use | only | · 40 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - | **** | | _ | | | |
| | DAT | E SI | NEI | | - 1 | | | | | | | | | | | | | | | | |
| | į., | DAY | | т УR, | | | | | E. Hold | is or ho | is been | recomm | ended | tor cont | inuing (| ontract | | = ===== | **** | | |
| , | MO. | | | | | | | | | | | | | | | | | | | | |

DATE SIGNED



COMPOSITE SUMMARIES OF ALL ANALYSES

The tables on the following two pages contain a summary of the significant results for all of the analyses reported in this volume. The first table relates to analyses employing data in raw score form. The second table relates to the same data after they have been converted to standard score form.

These tables constitute a cryptic statement of the fact that the factors tested do not account for a significant portion of the variance observed in the ratings.

A word of caution is in order for persons using these tables.

Since the results of several analysis of variance tests are not customarily combined in one table, the following tables have been interpreted by some as being a report of one many-factored analysis of variance. This, of course, is not the case. Each table is a compilation of sixteen different analyses with each of four different samples. The individual source tables for each analysis are included on subsequent pages of this report.



STUDIES A COMPOSITE SUMMARY OF SIGNIFICANT EFFECTS DETECTED IN SEVERAL DIFFERENT PILC USING DALA* FROM THE OFFICIAL FLORIDA TEACHER EVALUATION REPORTS AND EMPLOYING THE ANALYSIS OF VARIANCE TECHNIQUE

| | | | 7 | 1 | | | | | T | | | | | | | | | |
|----------------------|-------------|------------------------|--------------------|----|--------------|---|-----------|--------------|-----------|------------|---|---|----------|----------|---|-------------------|-------------|----------------|
| AL. | | | | | | 2 | 1 | | | | 1 | 1 | | | | 2 | 8 | 192 |
| TOTAL | | | ri | 7 | 1 | | 3 | ç | | | 2 | 3 | 2 | | 7 | 2 | 19 | H |
| .01 | | | | | | | | | | | | | | | | | 0 | 9 |
| AE . | | | 7 | | - | | | | \dagger | | | | | | | | 0. | 16 |
| AE 01 .0 | | | | | | | | - 41046 | | | | | | | | | | |
| <u>ئ</u> | | H | \dashv | - | _ | | 1 | | + | + | | | | | | | | 32 |
| 0 | | | - | - | | | | | + | - | | | | | | | | - |
| .01 | | | - | | | | | | + | - | | - | - | <u> </u> | | - | 0 | 16 |
| AB .05 | | | | | | | | | 1 | - | | _ | _ | _ | | | 0 | |
| .01 | | | | | | 7 | | | \perp | 1 | | _ | _ | | | | | 16 |
| ы О Experience | | | | | | | | | | | | | | | 1 | | 4 | |
| .01 | | | | 1 | | 1 | 1 | | | | 1 | | | | | | 5 | 32 |
| O. Level | - | | 1 | | 1 | | | | | | | 2 | | | | 1 | 7 |] ຶ |
| D 101 | | | - | | | | _ | | | | | L. | | | | | 1 | |
| O Rank | | | | | \vdash | | | | _ | 1 | 2 | \dagger | | | | 1 | 4 | 32 |
| اد | | | | | - | | - | | | + | | - | - | | | | | |
| | | $\left \cdot \right $ | | - | _ | - | - | - | + | + | - | + | - | \vdash | - | | 0 | 16 |
| a To x92 7 | | | | _ | _ | _ | _ | | + | - | - | - | <u> </u> | - | - | | | |
| faught. S | | | | _ | <u> </u> | _ | _ | | _ | _ | - | \downarrow | | L | _ | 1 | 1 | 32 |
| A Constant | | | | -1 | | | | | | | | | | | 1 | | 2 | |
| | I A Healthy | m | C Thinks Logically | | • | | Dedicated | | | C Friendly | • | LIL A MINWS SUBJECT R Action to Improve | - | | | F Uses Cumulative | TOTAL | Total Possible |

* Raw scores

A COMPOSITE SUMMARY OF SIGNIFICANT EFFECTS DETECTED IN SEVERAL DIFFERENT PILOT STUDIES
USING DATA* FROM THE OFFICIAL FLORIDA TEACHER EVALUATION REPORTS
AND EMPLOYING THE ANALYSIS OF VARIANCE TECHNIQUE

| * | | | | | | | | | | | | | | | | | | | |
|--|----------|-------------|---|---|----|------------|-----------------|----|--------------------------|---|---------|---------------------|---------------------|---------------------|---|---------------------|-----------------------------|-------|----------------|
| Aī. | .01 | 1 | | | | | | 1 | | 1 | 1 | 1 | | | | | 3 | 8 | 192 |
| TOTAL | .05 | | | 3 | 7 | | 7 | 1 | 2 | 1 | | | 2 | 3 | | 7 | 2 | 26 | 15 |
| | .01 | | | | | | | | | | | | | | | | | 0 | 16 |
| ĄĘ | .05 | | | 1 | | | 1 | 1 | | | | | | | Ţ | 1 | | 2 | |
| | .01 | | | | | | | , | | | | 18:18x 12:3000 | | | | | | 0 | 32 |
| CD | .05 | | | | | | | | | | | | | | | | | 0 | , |
| , | .01 | | | | | | | | | | | | | | | | Í | 0 | 16 |
| AB | .05 | | | | | | | | | | | | | | | | _ | 0 | 1 |
| , , , , , , , , , , , , , , , , , , , | | | | | | | | | | | | | - | | | | | 0 | 16 |
| ы регіепсе | · 05 Exi | | | | - | | -1 | | 1 | | | | | I | | 1 | | 9 | |
| | .01 | H | | | | | | -1 | | 1 | | 1 | | | | | | 7 | 32 |
| .e Tevel | .05 | | | 2 | _ | | - | | | | | | 1 | 1 | | | 1 | 7 | e e |
| ************************************* | .01 | | | | | | | | | | 1 | | | | | | H | 2 | 32 |
| ပ (ဒော န | .05 | | | | -1 | | | | 1 | | | 1 | H | 1 | | | 1 | 9. | E. |
| засрек | ∍T. 2. | | | | | | | | | | | | | | | | | 0 | 16 |
| a To xe | .05 | | | ŀ | | · | | | | | | | | | | | | . 0 | |
| zySı | o Tau | | | | | | | | | | | | | | | | 2 | 2 | |
| A ∃39[c | os Sub | | | | 1 | | | | | | | | | | | | | 2 | 32 |
| , | | T A Healthy | 2 | | | E Punctual | F Action On Own | | TI A Respected by Pupils | 2 | | III A Knows Subject | B Action to Improve | C Plans Effectively | | E Maintains Control | F Uses Cumulative Folder | TOTAL | Total Possible |

* The analyses summarized in this table were carried out using data converted to standard scores.



THE EFFECTS OF LEVEL AND RANK UPON RATINGS ASSIGNED BY PRINCIPALS ON THE 1965-66 OFFICIAL FLORIDA TEACHER EVALUATION FORMS ON A SAMPLE OF ELEMENTARY AND SECONDARY TEACHERS

Technique: The Analysis of variance technique was used. Two sets of analyses were carried out. The first used the data in raw score form. For the second, the data were converted to standard scores. (For further explanation, see "Introduction.")

Independent Variables: (A) Level of assignment (Secondary or Elementary), and (B) Rank of Certificate (Masters or Bachelors.)

Dependent Variable: Ratings assigned by principals in the 1965-66 Official Florida Teacher Evaluation Forms.

Sample: 92 Secondary and 92 Elementary teachers with a Rank I certificate (bachelors degree), 92 Secondary and 92 Elementary teachers with a Rank II certificate (masters degree).

Method for Selecting Sample: Teachers in the modal schools were classified according to rank and level. The sample was then randomly selected, cell by cell.



SUMMARY OF SIGNIFICANT RESULTS IN ANALYSES OF THE EFFECTS OF RAMK AND LEVEL UPON RATINGS ASSIGNED BY PRINCIPALS ON THE 1965-66 OFFICIAL FLORIDA TEACHER EVALUATION FORMS ON A SAMPLE OF ELEMENTARY AND SECONDARY TEACHERS

Analyses Using Raw Scores

| | A EXPER | | B SUBJ | | AB . | | TOT | |
|---|------------|-----|-----------|----|------|-----|--------------|------------|
| Item | .05 | .01 | 05 | UI | .05 | .01 | .05 | - |
| I A Healthy B Neat C Thinks Logically D Accurate E Punctual | | | | • | | | | , |
| F Action On Own G Dedicated II A Respected by Pupils B Responsible C Friendly | x ' | | Х | | X | • , | 2 1 | |
| III A Knows Subject B Action to Improve C Plans Effectively D Develops Interest E Maintains Control T Uses Cumulative | X | x | X X | | | • | 1 .1 1 | 1 . |
| Folder | | | | X | | | , | 1 |
| TOTAL | 2 | 1 | 3. | 1 | 1 | 0 | 6 | 2 |

| Item | A EXPERI | ENCE .01 | B SUBJ .05 | ECT | AB .05 | .01 | TOTAL | L .01 |
|--|-------------|-------------|------------------|-----|-----------|-----|------------------|----------|
| I A Healthy B Neat C Thinks Logically D Accurate E Punctual F Action On Own G Dedicated II A Respected by Pupils B Responsible C Friendly III A Knows Subject B Action to Improve C Plans Effectively D Develops Interest E Maintains Control F Uses Cumulative Folder | X X X | X | X X | X | | | 1 1 1 2 | 1 |
| TOTAL | . 4 | 1 | 3 | 1 | 0 | | 7 | 2 |



Analysis of Variance Source Tables for Analyses Using Item 1A, "Is Healthy and Emotionally Stable"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|------------|
| A (Rank) | 1 | 0.48076577 | 1.6462134 |
| B (Level) | 1 | 0.076924926 | 0.26340237 |
| ÀB | . 1 | 0.30769169 | 1.0535820 |
| Residual | 204 | 0.29204341 | |

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|------------|
| A (Rank) | 1 | 229.98032 | 2.3435712 |
| B (Level) | 1 | 29.267943 | 0.29824947 |
| AB | 1 | 78.619161 | 0.80115378 |
| Residual | 204 | 98.132422 | |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 1B, "Is Neat and Well Groomed in Appearence"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|-----------------------------|------------|
| A (Rank) | 1 | 0. 5817 3 374 | 2.0741071 |
| B (Level) | 1 | 0. 12019269 | 0.43059980 |
| AB | 1 | 0.23557557 | 0.84396808 |
| Residual | 204 | 0.27912853 | |

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|-------------------|-------------|
| A (Rank) | 1 | 36.093924 | 0.37041617 |
| B (Level) | 1 | 787.42151 | 8.0809630** |
| AB | 1 | 3 9.964889 | 0.41014220 |
| Residual | 204 | 97.441544 | |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 1C, "Thinks Logically and Makes Practical Decisions"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|------------|
| A (Rank) | 1 | 0.30769170 | 0.62456891 |
| B (Level) | 1 | 0.17307807 | 0.35132303 |
| AB | 1 . | 0.94230929 | 1.9127493 |
| Residual | 204 | 0.49264652 | |

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|------------|
| A (Rank) | 1 | 150.96934 | 1.3926230 |
| B (Level) | 1 | 611.83277 | 5.6438769* |
| AB | 1 | 118.12315 | 1.0896319 |
| Residual | 204 | 108.40647 | |



^{*} Significant at .05 level

^{**} Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 1D, "Is Accurate"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|------------|
| A (Rank) | 1 | 0.12019269 | 0.25353050 |
| B (Level) | 1 | 0.23557907 | 0.49692273 |
| AB | 1 | 0.12019269 | 0.25353050 |
| Residual | 204 | 0.47407586 | |

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|-------------|
| A (Rank) | 1 | 352.79027 | 3.3947811 |
| B (Level) | 1 | 33.827820 | 0.32551364 |
| AB | 1 | 8.0306528 | 0.077276248 |
| Residual | 204 | 103.92136 | |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 1E, "Is Punctual"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|-------------------------|-----------------|
| A (Rank) | 1 | 0.076922924 | 0.25547879 |
| B (Level) | 1 | 0.019231230 | 0.063871355 |
| AB | . 1 | 0.(10Z)13 000000 | 0.(10Z)43176001 |
| Residual | 204 | 0.30109319 | |

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|-------------|
| A (Rank) | 1 | 53.722070 | 0.52742127 |
| B (Level) | . 1 | 189.74341 | 1.8628230 |
| AB | 1 | 6.2960144 | 0.061811689 |
| Residual | 204 | 101.85799 | |



^{*} Significant at .05 level ** Significant at .01 level

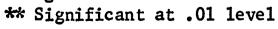
Analysis of Variance Source Tables for Analyses Using Item 1F, "Takes Necessary and Appropriate Action On His Own"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|-------------|
| A (Rank) | 1 | 0.23557732 | 0.78363318 |
| B (Level) | 1 | 0.0048078077 | 0.015992871 |
| АВ | 1 . | 0.38942566 | 1.2954000 |
| Residual | 204 | 0.30062193 | |

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-------------|-----------------|--------------|------------|
| A (Rank) | 1 | 28.259871 | 0.25166451 |
| B (Level) | 1 | 49.383840 | 0.43978120 |
| AB . | 1 | 107.32411 | 0.95576054 |
| Residua1 | 204 | 112.29184 | |

^{*} Significant at .05 level





Analysis of Variance Source Tables for Analyses Using Item 1G, "Is Dedicated to His Profession"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|------------|
| A (Rank) | 1 | 0.38942342 | 1.5845835 |
| B (Level) | 1 | 1.0817268 | 4.4016008* |
| АВ | 1 | 1.3894225 | 5.6536301* |
| Residual | 204 | 0.24575759 | |

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|------------|
| A (Rank) | 1 | 30.001894 | 0.32850020 |
| B (Level) | 1 | 18.212278 | 0.19941197 |
| AB . | 1 | 310.92324 | 2.3094651 |
| Residual | 204 | 91.329912 | • |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 2A, "Is Respected by Pupils"

Analys: Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|-------------|
| A (Rank) | 1 | 1.3894267 | 5.0806812 |
| B (Level) | 1 | 0.59173374 | 2.1272110 |
| АВ | 1 | 0.0048075576 | 0.017579673 |
| Residual | 204 | 0.27347252 | |

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|-------------------|--------------|
| A (Rank) | 1 | 333. 75590 | 3.9423882* |
| B (Level) | 1 | 4.4773369 | 0.052887156 |
| AB · | 1 | 0.65038782 | 0.0076825037 |
| Residual | 204 | 84.658304 | |



^{*} Significant at .05 level ** Significant at .01 level

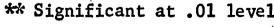
Analysis of Variance Source Tables for Analyses Using Item 2B, "Is Responsible and Dependable"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|-------------|
| A (Rank) | . 1 | 0.043268769 | 0.099028185 |
| B (Level) | 1 | 0.0048078077 | 0.011003513 |
| AB | . 1 | 0.23557557 | 0.53915611 |
| Residual | 204 | 0.43693388 | |

| Source | Deg. of Freedom | Mean Squares . | F Ratio |
|------------|-----------------|----------------|------------|
| A (Rank) | 1 | 39.794212 | 0.34545911 |
| B (Level) | 1 | 154.24089 | 1.3398967 |
| AB | 1 | 18.860100 | 0.16372716 |
| Residual . | 204 | 115.19225 | |

^{*} Significant at .05 level ** Significant at .01 level





Analysis of Variance Source Tables for Analyses Using Item 2C, "Is Friendly, Understanding, Sympathetic with Community, Other Staff Members & Administration"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|------------|
| A (Rank) | 1 | 0.17307657 | 0.68456340 |
| B (Level) | 0 | 0 | 0 |
| AB | 1 | 0.076923919 | 0.30425435 |
| Residual | 204 | 0.25282767 | |

| Source | Deg. | of Freedom · | Mean Squares | F Ratio |
|-----------|------|--------------|--------------|-------------|
| A((Rank) | | 1 | 160.21410 | 1.6757666 |
| B (Level) | | 1 | 8.0904142 | 0.084622053 |
| AB | ·; | · 1 | 40.554183 | 0.42417831 |
| Residual | • | 204 | 95.606451 | |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 3A, "Knows Subject Matter"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------------|------------|
| A (Rank) | 1 | 1.5576937 | 5.5636486 |
| B (Level) | 1 | 0.3076917 0 | 1.0989892 |
| AB | 1 | 0.076922918 | 0.27474727 |
| Residual | 204 | 0.27997701 | |

| Source | Deg. of Fre | eedom Mean | Squares F | Ratio |
|-----------|-------------|------------|-----------|------------|
| A (Rank) | 1 | 538.371 | 63 4. | .9131231* |
| B (Level) | . 1 | 7.094 | 3960 0. | .064742624 |
| AB | . 1 | 108.606 | 38 0. | .99113045 |
| Residua1 | 20 | 109.578 | 20 | |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 3B, "Takes Action To Improve Himself"

Analysis Using Raw Scores

| Source | Deg. of | Freedom | Mean Squares | F Ratio |
|-----------|---------|------------|--------------|-------------|
| A (Rank) | | 1 | 2.3269184 | 9.1898687** |
| B (Level) | | 1 | 1.2307667 | 4.8607568* |
| AB | | 0.48076828 | | 1.8987333 |
| Residual | | 204 | 0.25320475 | |

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|------------|
| A (Rank) | 1 | 539.94892 | 5.0759650* |
| B (Level) | 1 . | 100.20230 | 0.94198422 |
| AB | . 1 | 65.132678 | 0.61230087 |
| Residua1 | 204 | 106.37365 | |



^{*} Significant at .05 level

^{**} Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 3C, "Uses Instructional Materials and Lesson Plans Effectively"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------------|-------------------|
| A (Rank) | 1 | 0. 81250000 | 3.2076697 |
| B (Level) | 1 | 1.3894225 | 5. 4853027 |
| AB | 1 | 0.0048078076 | 0.018980749 |
| Residual | 294 | 0.25320015 | · |

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|-------------|
| A (Rank) | 1 | 564.60162 | 4.9536917* |
| B (Level) | 1 | 709.79786 | 6.2276119* |
| AB . | · 1 | 4.3122196 | 0.037834476 |
| Residual | 204 | 113.97593 | |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 3D, "Develops Pupil Interest and Eagerness To Learn"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|------------|
| A (Rank) | 1 | 0.38942342 | 1.4289200 |
| B (Level) | 1 | o.12019269 | 0.44102572 |
| AB | 1 | 0.81250000 | 2.9813244 |
| Residual | 204 | 0.27252989 | |

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|-----------|------|------------|-------------------|--------------|
| A (Rank) | | 1 | 69.701106 | 0.60945563 |
| B (Level) | | 1 | 0.28944651 | 0.0025308753 |
| AB | ·. | 1 | 3 26.08823 | 2.8513648 |
| Residual | | 204 | 114.36617 | • |

^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 3E, "Maintains Pupil Control"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|------------|
| A (Rank) | 1 | 0.076923925 | 0.24742566 |
| B (Level) | 1 | 0.30769170 | 0.98968977 |
| АВ | 1 | 0.17307657 | 0.55670046 |
| Residual | 204 | 0.31089712 | |

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|-------------------|------------|
| A (Rank) | 1 | 14.487342 | 0.14042203 |
| B (Level) | . 1 | 12.955968 | 0.12557873 |
| AB | . 1 | 35. 227826 | 0.34145390 |
| Residual | 204 | 103.17008 | |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 3F, "Uses Material in Cumulative Folder"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|--------------|
| A (Rank) | 1 | 1.7355711 | 3.4809910 |
| B (Level) | 1 | 4.0432648 | 8.1094739** |
| AB | 1 . | 0.0048078076 | 0.0096428980 |
| Residual | 204 | 0.49858534 | |

| Source | Deg. of Free | dom Mean Squar | res F Ratio |
|-----------|--------------|----------------|--------------|
| A (Rank) | 1 | 1643.5139 | 15.445297*** |
| B (Level) | ·; 1 | 505.74517 | 4.7557493* |
| AB | . 1 | 86.918127 | 0.81733025 |
| Residual | . 204 | | |



^{*} Significant at .05 level ** Significant at .01 level

THE EFFECTS OF SUBJECT TAUGHT AND SEX OF TEACHER UPON RATINGS ASSIGNED BY PRINCIPALS ON THE 1965-66 OFFICIAL FLORIDA TEACHER EVALUATION FORMS ON A SAMPLE OF ART, MUSIC, MATHEMATICS, & ENGLISH TEACHERS

Technique: The analysis of variance technique was used. Two sets of analyses were carried out. The first used the data in raw score form. For the second, the data were converted to standard scores. (For further explanation, see "Introduction.")

Independent Variables: (A) Subject (Art, Music, Mathematics, or English) and (B) Sex (Male or Female)

Dependent Variable: Ratings assigned by principals on the 1965-66 Official Florida Teacher Evaluation Forms.

Sample: 5 male and 5 female Art teachers, 5 male and 5 female Music teachers, 5 male and 5 female Mathematics teachers, and 5 male and 5 female English teachers.

Method for Selecting Sample: Teachers in the modal schools were classified according to subject and sex. The sample was then randomly selected, cell by cell.

SUMMARY OF SOGNIFICANT RESULTS IN ANALYSES OF THE EFFECTS OF SUBJECT TAUGHT AND SEX OF TEACHER UPON RATINGS ASSIGNED BY PRINCIPALS

ON THE 1965-66 OFFICIAL FLORIDA TEACHER EVALUATION FORMS

ON A SAMPLE OF ART, MUSIC, MATHEMATICS,

& ENGLISH TEACHERS

Analyses Using Raw Scores

| Wightage optic was a second | | | | | | | | |
|-----------------------------|-------------|-----|-----------|----|----------|-----|------|-----|
| | A EXPERI | | B SUBJ | | AB | 01 | TOTA | |
| Item | .05 | .01 | .05 | 01 | .05 | 01 | .05 | 01 |
| I A Healthy | | | | | | | | |
| B Neat | | | | • | | | , | |
| C Thinks Logically | × | | | | | | | |
| D Accurate | X | | | | | | 1 | |
| E Punctual | | | | | | | | |
| F Action On Own | | • | | | | | | |
| . G Dedicated | | | | | | | | · . |
| II A Respected by Pupils | | | | | | | | |
| B Responsible | | • | | | | | | |
| C Friendly | | | | | | 1 | | |
| III A Knows Subject | i | Ì | | | | | | |
| B Action to Improve | | | X | | | | . 1 | |
| C Plans Effectively | | | | | 1 | | | · |
| D Develops Interest | _ | | | | 1 | | | |
| E Maintains Control | Х | | | | 1 1 | | 'T | |
| F Uses Cumulative | | | | | 1 | | 1 | |
| Folder | | | | | 1 | , . | | • • |
| | 2 | | 7 | | 0 | | 3 | 0 |
| TOTAL | | 0 | | U | • | U | | V |
| | ł . | | | | <u>.</u> | | | |

| Item | | IENCE | B SUBJ | | AB .05 | .01 | TOTA .05 | .01 |
|--|---|-------|-----------|---|-----------|-----|-------------|-----|
| I A Healthy B Neat C Thinks Logically D Accurate E Punctual F Action On Own G Dedicated II A Respected by Pupils B Responsible C Friendly III A Knows Subject B Action to Improve C Plans Effectively D Develops Interest E Maintains Control F Uses Cumulative Folder | X | X | | | | | 1 | 1 |
| TOTAL | 2 | 1 | . 0 | 0 | 0 | | 2 | 1 |

Analysis of Variance Source Tables for Analyses Using Item 1A, "Is Healthy and Emotionally Stable"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|------------|
| A (Subjec | t) 3 | 0.29166667 | 1.3725490 |
| B (Sex) | 1 | 0.025000000 | 0.11764706 |
| AB | 3 | 0.35833333 | 1.6862745 |
| Residual | 32 | 0.21250000 | |

| Source | Deg. o | f Freedom | Mean Squares | F Ratio |
|-----------|--------|-----------|--------------|-------------|
| A (Subjec | t) | 3 | 216.36799 | 2.3281415 |
| B (Sex) | Č. | 1 | 1.3490929 | 0.014516376 |
| AB | | 3 | 204.38696 | 2.1992244 |
| Residual | | 32 | 92.935928 | |

^{*} Significant at .05 level

^{**} Significant at .01 level

Analysis of Varianve Source Tables for Analyses Using Item 1B, "Is Neat and Well Groomed in Appearence"

Analysis Using Raw Scores

| Source | Deg. of Freedom | m Mean Squares | F Ratio |
|-----------|-----------------|----------------|------------|
| A (Subjec | t) 3 | 0.2000000 | 0.59259259 |
| B (Sex) | 1 | 0.4000000 | 1.1851852 |
| AB | 3 | 0.06666667 | 0.19753087 |
| Residual | 32 | 0.33750000 | |

| Source | Deg. o | f Freedom | Mean Squares | F Ratio |
|-----------|--------|-----------|-------------------|------------|
| A (Subjec | :t) | 3 | 78.582017 | 0.68123157 |
| B (Sex) | ,• | 1 | 49.102128 | 0.42 66889 |
| AB | ••• | 3 | 3 6.832780 | 0.31930528 |
| Residual | | 32 | 115.35287 | |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 1C, "Thinks Logically and Makes Practical Decisions"

Analysis Using Raw Scores

| Source | Deg. of | Freedom | Mean Squares | F Ratio |
|-----------|---------|---------|--------------|-------------|
| A (Subjec | ct) | 3 | 0.49166667 | 1.8730159 |
| B (Sex) | | 1 | 0.25000000 | 0.095238095 |
| ÁВ | | 3 | 0.29166667 | 1.1111111 |
| Residual | | 32 | 0.26250000 | |

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|------------|------|------------|--------------|------------|
| A (Subject | ct) | 3 | 230.57450 | 2.5019830 |
| B (Sex) | • | 1 | 43.653834 | 0.47369138 |
| AB | • | 3 | 148.53594 | 1.6117758 |
| Residual | | 32 | 92.156700 | |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 1D, "Is Accurate"

Analysis Using Raw Scores

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|-----------|------|------------|--------------|------------|
| A (Subjec | et) | 3 | 0.90000000 | 3.6000000* |
| B (Sex) | | 1 | 0.10000000 | 0.4000000 |
| AB | | 3 | 0.3666667 | 1.4666667 |
| Residual | | 32 | 0.25000000 | |

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|-----------|------|------------|--------------|------------|
| A (Subjec | t) | 3 | 332.56086 | 3.6616361* |
| B (Sex) | | 1 | 82.555656 | 0.90897279 |
| AB | | 3 | 208.68665 | 2.2977285 |
| Residual | | 32 | 90.823022 | |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 1E, "Is Punctual"

Analysis Using Raw Scores

| Source | Deg. o | f Freedom | Mean Squares | F Ratio |
|-----------|--------|-----------|--------------|------------|
| A (Subjec | et) | 3 | 0.70000000 | 1.6969697 |
| B (Sex) | | 0 | 0 | 0 |
| AB | | 3 | 0.20000000 | 0.48484848 |
| Residual | | 32 | 0.41250000 | |

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|-----------|------|------------|--------------|------------|
| A (Subjec | t) | 3 | 213.61041 | 1.6459838 |
| B (Sex) | ·; | 1 | 51.281866 | 0.39515452 |
| AB | • | 3 | 64.728470 | 0.49876788 |
| Residual | | 32 | 129.77674 | |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 1F, "Takes Necessary and Appropriate Action On Own"

Analysis Using Raw Scores

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|-----------|------|------------|--------------|----------|
| A (Subjec | :t) | 3 | 0.6666667 | 2.222222 |
| B (Sex) | | 0 | 0 | 0 |
| АВ | | 3 | 0.6666667 | 2.222222 |
| Residual | | 32 | 3.00000000 | |

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|-----------|-----------|------------|--------------|------------|
| A (Subjec | :t) | 3 | 378.99317 | 3.4403458 |
| B (Sex) | • | 1 | 47.495666 | 0.43114633 |
| AB | `. | 3 | 287.17826 | 2.6068874 |
| Residual | | 32 | 110.16136 | |

^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 1G, "Is Dedicated to His Profession"

Analysis Using Raw Scores

| Source Deg. o | f Freedom | Mean Squares | F Ratio |
|---------------|-----------|--------------|------------|
| A (Subject) | 3 | 0.15833333 | 0.50666666 |
| B (Sex) | 1 | 0.22500000 | 0.72000000 |
| AB | 3 | 0.22500000 | 0.72000000 |
| Residual | 32 | 0.31250000 | |

| Source | Deg. of | Freedom | Mean Squares | F Ratio |
|-----------|---------|---------|--------------|------------|
| A (Subjec | t) | 3 | 105.12452 | 0.99197471 |
| B (Sex) | • | 1 | 24.517296 | 0.23134981 |
| АВ | • | 3 | 113.98664 | 1.0755993 |
| Residual | | 32 | 105.97500 | |

^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 2A, "Is Respected By Pupils"

Analysis Using Raw Scores

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|----------|------|------------|--------------|-----------|
| A (Subje | ct) | 3 | 0.43333333 | 1.9259259 |
| B (Sex) | | 1 | 0.4000000 | 1.7777778 |
| АВ | | 3 | 0.33333333 | 1.4814815 |
| Residual | • | 32 | 0.22500000 | |

Analysis Using Standard Scores

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|-----------|------|------------|--------------|------------|
| A (Subjec | et) | 3 | 234.15706 | 2.4337888 |
| B (Sex) | .• | 1 | 88.384319 | 0.91865164 |
| AB | | 3 | 112.80540 | 1.1724802 |
| Residual | | 32 | 96.210919 | |

ERIC Full Taxt Provided by ERIC

^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 2B, "Is Responsible and Dependable"

Analysis Using Raw Scores

| Source | Deg. o | f Freedom | Mean Squares | F Ratio |
|----------|--------|-----------|--------------------|------------|
| A (Subje | ct) | 3 | 0. 56666667 | 1. 4623656 |
| B (Sex) | | 1 | 0.10000000 | 0.25806452 |
| AB | | 3 | 0.56666667 | 1.4623656 |
| Residual | | 32 | .0.38750000 | |

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|-----------|------|------------|--------------|------------|
| A (Subjec | t) | 3 | 171.72233 | 0.84840978 |
| B (Sex) | ·: | 1 | 24.933989 | 0.12318864 |
| AB | • | 3 | 178.20447 | 0.88043538 |
| Residual | | 32 | 202.40494 | |

^{*} Significant at .05 level

^{**} Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 2B, "Is Responsible and Dependable"

Analysis Using Raw Scores

| Source | Deg. of | Freedom | Mean Squares | F Ratio |
|----------|---------|---------|--------------------|------------|
| A (Subje | ct) | 3 | 9.5 6666667 | 1. 4623656 |
| B (Sex) | | 1 | 0.10000000 | 0.25806452 |
| AB | • | 3 | 0.56666667 | 1.4623656 |
| Residual | | 32 | 0.38750000 | |

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|-----------|------|------------|-------------------|------------|
| A (Subjec | t) | 3 . | 171.72233 | 0.84840978 |
| B (Sex) | ·, | 1 | 24.933 989 | 0.12318864 |
| AB | | 3 | 178.20447 | 0.88043538 |
| Residual | | 32 | 202.40494 | |

^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 2C, "Is Friendly, Understanding, Sympathetic, with Community, Other Staff Members & Administration"

Analysis Using Raw Scores

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|----------|------|------------|--------------|-------------|
| A (Subje | ct) | 3 | 0.091666667 | 0.33333333 |
| B (Sex) | | 1 | 0.025000000 | 0.090909091 |
| AB | | 3 | 0.091666667 | 0.33333333 |
| Residual | | 32 | 0.27500000 | |

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|-----------------|------|------------|--------------|------------|
| A (Subjec | et) | 3 · | 97.737183 | 0.93554851 |
| B (Sex) | | 1 | 80.857769 | 0.77397734 |
| AB | • | 3 | 38.781200 | 0.37121690 |
| Residual | | 32 | 104.47046 | · |

^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 3A, "Knows Subject Matter"

Analysis Using Raw Scores

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|----------|------|------------|--------------|-------------|
| A (Subje | ct) | 3 | 0.15833333 | 0.60317459 |
| B (Sex) | | 1 | 0.025000000 | 0.095238095 |
| AB | | 3 | 0.29166667 | 1.1111111 |
| Residual | | 3 2 | 0.26250000 | |

| Source | Deg, | of Freedom | Mean Squares | F Ratio |
|-----------|------|------------|--------------|-------------|
| A (Subjec | t) | 3 | 145.59822 | 1.8463083 |
| B (Sex) | | 1 | 6.2829400 | 0.079672980 |
| AB · | ••• | 3 . | 199.26171 | 2.5268066 |
| Residual | | 3 2 | 78.859106 | |

^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 3B, "Takes Action to Improve Himself"

Analysis Using Raw Scores

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|----------|------|------------|--------------|------------|
| A (Subje | ct) | 3 | 0.033333333 | 0.12121212 |
| B (Sex) | | 1 | 0.90000000 | 3.2727273* |
| AB | | 3 | 0.033333333 | 0.12121212 |
| Residual | | 32 | 0.27500000 | |

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|-----------|------|------------|--------------|------------|
| A (Subjec | t) | 3 | 36.599373 | 0.46048302 |
| B (Sex) | | 1 | 228.49834 | 0.28875194 |
| AB | • | 3 | 22.950119 | 0.28875194 |
| Residual | | 32 | 79。480397 | |

^{*} Significant at .05 level

^{**} Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 3C, "Uses Instructional Materials and Lesson Plans Effectively"

Analysis Using Raw Scores

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|----------|------|------------|--------------|-------------|
| A (Subje | ct) | 3 | 0.35833333 | 1.1466667 |
| B (Sex) | | 1 | 0.025000000 | 0.080000000 |
| AB | | 3 | 0.29166667 | 0.93333334 |
| Residual | | 32 | 0.31250000 | |

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|------------|------|------------|--------------|------------|
| A (Subject | t) | 3 | 156.02949 | 1.9916492 |
| B (Sex) | | 1 | 38.087425 | 0.48616957 |
| AB | •• | 3 | 130.70844 | 1.6684369 |
| Kesidual | | 32 | 78.341853 | |



^{*} Significant at .05 level

^{**} Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 3D, "Develops Pupil Interest and Eagerness To Learn"

Analysis Using Raw Scores

| Source | Degree of Freedom | Mean Squares | F Ratio |
|-----------|-------------------|--------------|-----------|
| A (Subjec | t) 3 | 0.43333333 | 1.7333333 |
| B (Sex) | 1 | 0.10000000 | 0.4000000 |
| AB | 3 | 0.16666667 | 0.6666668 |
| Residual | 32 | 0.25000000 | |

| Source | Deg. | of Ereedom | Mean Squares | F Ratio |
|-----------|-----------|-------------------|--------------|------------|
| A (Subjec | t) | 3 | 186.79728 | 2.4819535 |
| B (Sex) | | 1 | 65.014800 | 0.86384400 |
| AB | '. | 3 | 118.88605 | 1.5796250 |
| Residual | | 32 | 75.262200 | |



^{*} Significant at .05 level

^{**} Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 3E, 'Maintains Pupil Control"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|-------------------|-----------|
| A (Subjec | et) 3 | 1. 2666667 | 3.7530865 |
| B (Sex) | 0 | 0 | 0 . |
| AB | 3 | 0.60000000 | 1.7777778 |
| Residual | 32 | 0.33750000 | |

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|-----------|------|------------|--------------|------------|
| A (Subjec | t) | 3 | 548.55557 | 5.2193585 |
| B (Sex) | | 1 | 14.232490 | 0.13541831 |
| AB | ·. | 3 | 179.44896 | 1.7074085 |
| Residual | | 3 2 | 105.10019 | |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 3F, "Uses Material in Cumulative Folder"

Analysis Using Raw Scores

| Source | Deg. of | Freedom | Mean Squares | F Ratio |
|----------|---------|------------|--------------|------------|
| A((Subje | ct) | 3 | 0.29166667 | 1.5666667 |
| B (Sex) | | 1 | 0.025000000 | 0.14285714 |
| AB , | | 3 | 0.42500000 | 2.4285714 |
| Residual | | 3 2 | 0.17500000 | |

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|-----------|------|------------|--------------|---------------------|
| A (Subjec | t) | 3 | 68.116850 | 0.80886122 |
| B (Sex) | | 1 | 7.8402169 | 0. 093099540 |
| AB | • | 3 | 276.22271 | 3.2800377* |
| Residual | • | 3 2 | 84.213272 | |



^{*} Significant at .03 level

^{**} Significant at .01 level

THE EFFECTS OF RANK AND LEVEL UPON RATINGS ASSIGNED BY PRINCIPALS ON THE 1965-66 OFFICIAL FLORIDA TEACHER EVALUATION FORMS ON A SAMPLE OF ELEMENTARY AND SECONDARY TEACHERS

Technique: The analysis of variance technique was used. Two sets of analyses were carried out. The first used the data in raw score form. For the second, the data were converted to standard scores. (For further explanation, see "Introduction.")

Independent Variables: (A) Rank (Rank II, Masters degree, and Rank III, Bachelors degree) and (B) Level (Secondary and Elementary) were the effects tested.

Dependent Variable: Ratings assigned by principals on the 1965-66 Official Florida Teacher Evaluation Forms.

Sample: 52 Secondary teachers with Rank II certificates, 52 Elementary teachers with Rank II certificates, 52 Secondary teachers with Rank III certificates, and 52 Elementary teachers with Rank III certificates. (For further explanation, see "Introduction.")

Method for Selecting Sample: Teachers in the modal schools were classified according to rank and level. The sample was then randomly selected, cell by cell.



SUMMARY OF SIGNIFICANT RESULTS IN ANALYSES OF THE EFFECTS OF RANK AND LEVEL UPON RATINGS ASSIGNED BY PRINCIPALS ON THE 1965-66 OFFICIAL FLORIDA TEACHER EVALUATION FORMS ON A SAMPLE OF ELEMENTARY AND SECONDARY TEACHERS

Analyses Using Raw Scores

| | | | | | | D.**** | ********** | |
|--------------------------|-----------------|------|-------------------|------------|----------------|--|-------------------|-----|
| | A | | В | | AB | | | |
| | EXPER] | ENCE | SUBJ | ECT | • | | TOT | AL |
| • Item | | .01 | .05 | | .05 | .01 | .05 | .01 |
| I A Healthy | THE PLANT SHOWS | - | والمستقول والمبور | A STREET | 100 min 12 min | A CONTRACTOR OF THE PARTY OF TH | | |
| B Neat | | | | | | | | |
| | ľ | | x | | | | 1 | |
| C Thinks Logically | ŀ | | | x | | | 7 | 1 |
| D Accurate | l | | · | A | | | | Τ. |
| E Punctual | ł | | X | | | | Ţ | _ |
| F Action On Own | Ī | | | X | | | | 1 |
| . G Dedicated . | | | | . X | | | | . 1 |
| II A Respected by Pup. s | 1 | • | | | | | | |
| B Responsible | ! | | | | | | | • |
| C Friendly | 1 | | • | | | | | |
| • | х | | | x | | | 1 | 'n |
| III A Knows Subject | , | | х | | | | 1 | - |
| B Action to Improve | Ī | | Λ. | | | | | |
| C Plans Effectively | • | | | , i | | - | 1 | • |
| D Develops Interest | I | | * | | | | | |
| E Maintains Control | 1 | | | | | | | |
| F Uses Cumulative | 1 | | | , | | | ł | |
| Folder | X | | X | | | | 2 | |
| Lorder | | | | | | | | |
| TOTAL | 2 | 0 | 4 | 4 | 0 | 0 | 6. | 4 |
| | Į | | | | | | | · |

| I tem | A EXPERI 105 | ENCE .01 | B SUBJ :05 | ECT | AB .05 | .01 · | TOTA1 | .01 |
|--|--------------------|-------------|------------------|--------|--------|-------|-------|-------|
| I A Healthy B Neat C Thinks Logically D Accurate E Punctual F Action On Own G Dedicated II A Respected by Pupils B Responsible C Friendly III A Knows Subject B Action to Improve C Plans Effectively D Develops Interest E Maintains Control F Uses Cumulative Folder | x | X | X X | X X | | | 1 1 1 | 1 1 1 |
| TOTAL | 2 | 1 | 4 | . 3 | 0 | 0 | 6 | 4 |

Analysis of Variance Source Tables for Analyses Using Item 1A, "Is Healthy and Emotionally Stable"

Analysis Using Raw Scores

| Source | Deg. Freedom | Mean Squares | F Ratio |
|-----------|--------------|--------------|------------|
| A (Rank) | 1 | 0.067935217 | 0.28405765 |
| B (Level) | 1. | 0.024455479 | 0.10225574 |
| АВ | 1 | 0.13315232 | 0.55675005 |
| Residual | 364 | 0.23915996 | |

| Source | Deg. Freedom | Mean Squares | F Ratio |
|-----------|--------------|--------------|------------|
| A (Rank) | 1 | 10.891375 | 0.12707067 |
| B (Level) | 1 | 49.277627 | 0.57492658 |
| AB · | 1 | 101.94640 | 1.1894180 |
| Residual | 364 | 85.711165 | |

^{*} Significant at .05 level

^{**} Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 1B, "Is Neat and Well Groomed in Appearence"

Analysis Using Raw Scores

| Source | Deg. Freedom | Mean Squares | F Ratio |
|-----------|--------------|--------------|-------------|
| A (Rank) | 1 | 0.32880315 | 1.2168174 |
| B (Level) | . 1 | 0.32880864 | 1.2168377 |
| AB | 1 | 0.0037176087 | 0.010057184 |
| Residual | 364 | 0.27021568 | |

| Source | Deg. Freedom | Mean Squares | F Ratio |
|-----------|--------------|--------------|-------------|
| A (Rank) | 1 | 113.70957 | 1.1746689 |
| B (Level) | 1 | 50.899306 | 0.52581179 |
| AB | 1 | 7.6801301 | 0.079339057 |
| Residual | 364 | 96.801379 | |

^{*} Significant at .05 level

^{**} Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 1C, "Thinks Logically and Makes Practical Decisions"

Analysis Using Raw Scores

| Source | Deg. Freedom | Mean Squares | F Ratio |
|-----------|--------------|--------------|-------------|
| A (Rank) | 1 | 0.024456979 | 0.093080679 |
| B (Level) | . 1 | 1.6983680 | 6.4638092* |
| AB | 1 | 0.067935215 | 0.4638092 |
| Residual | 364 | 0.26275033 | |

| Source | Deg. Freedom | Mean Squares | F Ratio |
|-----------|--------------|--------------|-------------|
| A (Rank) | 1 | 102.33939 | 1.1158722 |
| B (Level) | 1 | 455.73799 | 4.9692044* |
| AB | 1 | 8.2398357 | 0.089844227 |
| Residual | 364 | 91.712467 | |



^{*} Significant at .05 level

^{**} Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 1D, "Is Accurate"

Analysis Using Raw Scores

| Source | Deg. Freedom | Mean Squares | F Ratio |
|-----------|--------------|--------------|-------------|
| A (Rank) | 1 | 0.22010831 | 0.81187384 |
| B (Level) | 1 | 1.9809883 | 7.3069144** |
| AB | 1 | 0.78532937 | 2.8967029 |
| Residual | 364 | 0.27111147 | •: |

| Source | Deg. Freedom | Mean Squares | F Ratio |
|-----------|--------------|--------------|------------|
| A (Rank) | 1 | 390.02220 | 4.2833678* |
| B (Level) | 1 | 602.18131 | 6.6133775* |
| · AB | 1 | 222.38491 | 2.4423132 |
| Residual | 364 . | 91.055033 | |



^{*} Significant at .05 level

^{**} Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 1E, "Is Punctual"

Analysis Using Raw Scores

| Source | Deg. Freedom | Mean Squares | F Ratio |
|-----------|--------------|--------------|------------|
| A (Rank) | 1 | 0.22010831 | 0.72972996 |
| B (Level) | 1 | 1.4375000 | 4.7657756* |
| AB | 1 | 0.32880864 | 1.0901066 |
| Residual | 364 | 0.30162981 | |

| Source | Deg. Freed | om Mean Square | es F Ratio |
|-----------|------------|----------------|------------|
| A (Rank) | 1 | 175.89092 | 1.6364537 |
| B (Level) | 1 | 392.56616 | 3.6523565 |
| AB . | 1 | 25.264801 | 0.23505862 |
| Residual | 364 | 107.48298 | |

^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 1F, "Takes Necessary and Appropriate Action On His Own"

Analysis Using Raw Scores

| Source | Dec. Freedom | Mean Squares | F Ratio |
|-----------|--------------|--------------|-------------|
| A (Rank) | . 1 | 0.27174086 | 1.0343342 |
| ß (Level) | 1 | 2.7826074 | 10.591510** |
| AB | 0 | 0 | 0 |
| Residual | 364 | 0.26272055 | • |

| Source | Deg. Freedom | Mean Squares | F Ratio |
|-----------|--------------|--------------|------------|
| A (Rank) | 1 | 313.03419 | 3.6878446 |
| B (Level) | 1 | . 518.16322 | 6.1044624 |
| АВ | 1 | 42.988 | 0.50644184 |
| Residual | 364 | 84.882695 | |
| | | · · | |

 $[\]star$ Significant at .05 level

^{**} Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 1G, "Is Dedicated to His Profession"

Analysis Using Raw Scores

| Source | Deg. Freedom | Mean Squares | F Ratio |
|-----------|--------------|--------------|-------------|
| A (Rank) | 1 | 0.010869435 | 0.045060226 |
| B (Level) | 1 | 3.1413007 | 13.022546** |
| AB | 1 | 0.69565185 | 3.8838877 |
| Residual | 364 | 0.24122016 | |

| Source | Deg. Freedom | Mean Squares | F Ratio |
|-----------|--------------|-------------------|-------------|
| A (Rank) | 1 | 24.17 9561 | 0.28206128 |
| B (Level) | 1 | 1394.0542 | 16.262029** |
| AB · | 1 | 116.94022 | 1.3641401 |
| Residual | 364 | 85.724495 | |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 2A, "Is Respected By Pupils"

Analysis Using Raw Scores

| Source | Deg. Freedom | Mean Squares | F Ratio |
|-----------|--------------|--------------|--------------|
| A (Rank) | 1 | 0.024456979 | 0.084845849 |
| B (Level) | 1 | 0.067935217 | 0.23568002 |
| AB | 1 . | 0.0027171087 | 0.0094261599 |
| Residual | 364 | 0.28825192 | |

| Source | Deg. Freedom | Mean Squares | F Ratio |
|-----------|--------------|--------------|-------------|
| A (Rank) | 1 | 23.423568 | 0.22514336 |
| B (Level) | 1 | 6.3103076 | 0.060653604 |
| AB . | 1 | 5.8054714 | 0.055801205 |
| Residual | 364 | 104, 03846 | |



^{*} Significant at .05 level

^{**} Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 2B, "Is Responsible and Dependable"

Analysis Using Raw Scores

| Source | Deg. Freedom | Mean Squares | F Ratio |
|-----------|--------------|--------------|-------------|
| A (Rank) | . 0 | 0 | 0 |
| B (Level) | · 1 | 2.1304372 | 8.4191913 |
| AB | 1 | 0.010869435 | 0.042953393 |
| Residual | 364 | 0.25304535 | |

| Source | Deg. Freedom | Mean Squares | F Ratio |
|-----------|--------------|--------------|-------------|
| A (Rank) | 1 | 72.171141 | 0;79600903 |
| B (Level) | 1 | 737.29664 | 8.1319870** |
| АВ | 1 | 7.4605129 | 0.082285461 |
| Residual | 364 | 90.666234 | |



^{*} Significant at .05 level

^{**} Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 2C, "Is Friendly, Understanding, Sympathetic with Community, Other Staff Members & Administration"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|-------------|
| A (Rank) | 1 | 0.88043322 | 3.0540710 |
| B (Level) | 1 | 0.010870435 | 0.037703665 |
| AB | 1 | 0.17391495 | 0.60328098 |
| Residua1 | 364 | 0.28828184 | |

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|-------------|
| A (Rank) | 1 | 823.7932 | 8.7185237** |
| R (Level) | 1 | 0.21694277 | 0.002971438 |
| AB | 1 . | 42.863280 | 0.45386678 |
| Residual | 364 | 94.440223 | |

^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 3A, "Knows Subject Matter"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|-------------|
| A (Rank) | 1 | 1.0869535 | 4.5375203* |
| B (Level) | 1 | 3.1413007 | 13.113455** |
| AB | 1 | 0.043477740 | 0.13149914 |
| Residual | 364 | 0.23954791 | |

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|-----------|------|------------|--------------|--------------|
| A (Rank) | | 1 | 14.276457 | 0.17494054 |
| B (Level) | | 1 | 1393.5636 | 17.076420** |
| AB | | 1 | 0.34460863 | 0.0042227578 |
| Residual | | 364 | 81.607481 | |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 3B, "Takes Action to Improve Himself"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|-------------|
| A (Rank) | 1 | 0.010869435 | 0.043992804 |
| B (Level) | 1 | 1.0869535 | 4.3993209* |
| AB | 1 | 0.17391095 | 0.70388483 |
| Residual | 364 | 0.24707302 | |

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|-------------------|------------|
| A (Rank) | 1 | 3 27.55534 | 3.4082857 |
| B (Level) | 1 | 512.75608 | 5.3353403* |
| AB · | 1 | 191.86253 | 1.9963720 |
| Residua1 | 364 | 96.105599 | |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 3C, "Uses Instructional Materials and Lesson Plans Effectively"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|------------|
| A (Rank) | 1 | 0.067935217 | 0.17531241 |
| B (Leveï) | 1 | 0.32880315 | 0.84850357 |
| AB | 1 | 0.32880315 | 0.84850357 |
| Residual | 364 | 0.38750945 | |

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|-------------|
| A (Rank) | 1 | 3.1117565 | 0.034982737 |
| B (Level) | 1 . | 306.08179 | 3.4410080 |
| AB . | 1 | 37.875570 | 0.42580167 |
| Residual | 364 | 88.951201 | |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 3D, "Develops Pupil Interest and Eagerness To Learn"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|-------------|
| A (Rank) | 1 | 0.943478739 | 0.15157390 |
| B (Level) | 1 | 0.39130565 | 1.3641546 |
| AB | 1 . | 0.010869935 | 0.037894347 |
| Residual | 364 | 0.28684846 | |

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|-------------|
| A (Rank) | 1 | 6.1440089 | 0.067680161 |
| B (Level) | 1 | 92.618817 | 1.0202551 |
| АВ | 1 | 46.567672 | 0.51297249 |
| Residual | 364 | 90.780058 | |

^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 3E, 'Maintains Pupil Control"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------------|------------|
| A (Rank) | 1 | 0.173 91496 | 0.56831336 |
| B (Level) | 1 | 0.39130565 | 1.2786952 |
| AB | . 0 | 0 | 0 |
| Residual | 364 | 0.30601948 | |

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------|-------------|
| A (Rank) | 1 | 12.960418 | 0.13395296 |
| B (Level) | 1 | 187.22347 | 1.9353451 |
| AB . | 1 | 2.6038466 | 0.026916187 |
| Residual | 364 | 96.739060 | |



^{*} Significant at .05 leve1
** Significant at .01 leve1

Analysis of Variance Swarce Tables for Analyses Using Item 3F, "Uses Material in Cumulative Folder"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-----------|-----------------|--------------------|-------------|
| A (Rank) | 1 | 1.1983710 | 5.5947484* |
| B (Level) | . 1 | 1.1983710 | 5.5947484* |
| AB | 1 | 0.0027171087 | 0.012685170 |
| Residual | 364 | 0.214195 69 | |

| Source | Deg. of Freedom | Mean Squa r es | F Ratio |
|-----------|-----------------|-----------------------|--------------|
| A (Rank) | 1 | 438.86162 | 4.1996235* |
| B (Level) | 1 | 255.27376 | 2.4428057 |
| AB . | 1 | 0.36227596 | 0.0034667480 |
| Residual | 364 | 104.50023 | |

^{*} Significant at .05 level

^{**} Significant at .01 level

THE EFFECTS OF SUBJECT TAUGHT AND YEARS OF EXPERIENCE UPON RATINGS ASSIGNED BY PRINCIPALS ON THE 1965-66 OFFICIAL FLORIDA TEACHER EVALUATION FORMS ON A SAMPLE OF ENGLISH AND MATHEMATICS TEACHERS

Technique: The analysis of variance technique was used. Two sets of analyses were carried out. The first used the data in raw score form. For the second, the data were converted to standard scores. (For further explanation, see "Introduction.")

Independent Variables: (A) Experience of teacher (0-1, $1\frac{1}{2}$ - $4\frac{1}{2}$, $5-9\frac{1}{2}$, $10-14\frac{1}{2}$, $15-19\frac{1}{2}$, and 20-41 years.) and (B) Subject taught (Mathematics or English.)

Dependent Variable: Ratings assigned by principals on the 1965-66 Official Florida Teacher Evaluation Forms.

Sample: 9 English and 9 Mathematics teachers having 0-1 years of experience, 9 English and 9 Mathematics teachers having 1½-4½ years of teaching experience, 9 English and 9 Mathematics teachers having 5-9½ years of teaching experience, 9 English and 9 Mathematics teachers having 10-14½ years of experience, 9 English and 9 Mathematics teachers having 15-19½ years of experience, and 9 English and 9 Mathematics teachers having 20-41 years of teaching experience. (For further explanation, see "Introduction.")

Method for Selecting Sample: Teachers in the modal schools were classified according to subject and experience. The sample was then randomly selected, cell by cell.



SUMMARY OF SIGNIFICANT RESULTS IN ANALYSES OF THE EFFECTS OF SUBJECT TAUGHT AND YEARS OF EXPERIENCE UPON RATINGS ASSIGNED BY PRINCIPALS
ON THE 1965-66 OFFICIAL FLORIDA TEACHER EVALUATION FORMS
ON A SAMPLE OF ENGLISH AND MATHEMATICS TEACHERS

Analyses Using Raw Scores

| Wildly 262 Of the Little And the Control of the Con | | | | | | | | |
|--|--------------------|-------------|-----------------|---|-----------|-----|------------|-----|
| Item | A EXPERI .05 | ENCE .01 | B SUBJ 05 | | AB .05 | .01 | TOTA 05 | l l |
| I A. Healthy B Neat C Thinks Logically D Accurate E Punctual F Action On Own G Dedicated II A Respected by Pupils B Responsible C Friendly III A Knows Subject B Action to Improve C Plans Effectively D Develops Interest E Maintains Control F Uses Cumulative Folder | x x x | X | | X | | | 1 1 | 1 |
| TOTAL | 4 | 1 | 0 | 1 | 0 | 0 | 4 | 2 |

| Item | A EXPERIENCE 105 .01 | B SUBJECT .05 .01 | AB .05 .01 | TOTAL .05 .01 |
|---|----------------------|-------------------------|---------------|-----------------------|
| I A Healthy B Neat C Thinks Logically D Accurate E Punctual F Action On Own G Dedicated II A Respected by Pupils B Responsible | X X X X | | X X X | 1 1 2 1 1 |
| C Friendly III A Knows Subject B Action to Improve C Plans Effectively D Develops Interest E Maintains Control F Uses Cumulative Folder | X X | X | X X | 1 1 2 1 |
| TOTAL . | 6 0 | 1 0 | 5 0 | 12 0 |

Analysis of Variance Source Tables for Analyses Using Item 1A, "Is Healthy and Emotionally Stable"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|------------|-----------------|--------------|------------|
| A (Experi | ence) 5 | 0.59259228 | 1.8962978 |
| B (Subject | t) 1 | 0.037037297 | 0.11851951 |
| AB | 5 | 0.32592596 | 1.9429645 |
| Residua1 | 96 | 0.31249958 | |

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|------------|-------|------------|-------------------|---------------|
| A (Experie | ence) | 5 | 139.80893 | 1.1738294 |
| B (Subjec | t) | 1 | 0.035750992 | 0.00030016370 |
| AB | • | 5 | 163.1 5668 | 1.3698561 |
| Residual | | 96 | 119.10498 | |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 1B, "Is Neat and Well Groomed in Appearence"

Analysis Using Raw Scores

| Source | Deg, of Freedom | Mean Squares | F Ratio |
|-------------------|-----------------|--------------|------------|
| A (Experie | nce) 5 | 0.075925992 | 0.27796666 |
| B (Subject | 1 | 0.74999850 | 2.7457603 |
| АВ | 5 | 0.27333324 | 1.0372890 |
| Re s idual | 96 | 0.27314783 | |

| So | urce Deg. | of Freedom | Mean Squares | F Ratio |
|----|--------------|------------|--------------|------------|
| A | (Experience) | 5 | 19.686020 | 0.30521611 |
| В | (Subject) | 1 | 140.71942 | 2.1817429 |
| AB | | 5 | 63.342828 | 0.98208025 |
| Re | · sidual | 96 | 64.498627 | |



^{*} Significant at .05 level

^{**} Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 1C, "Thinks Logically and Makes Practical Decisions"

Analysis Using Raw Scores

| Source | Deg. of | Freedom | Mean Squares | F Ratio |
|------------|---------|---------|-----------------|-----------------|
| A (Experie | ence) | 5 | 0.34814810 | 1.1842531 |
| B (Subject | :) | 1 | 0.(12Z)75000000 | o.(11Z)25511838 |
| AB | | 5 | 0.42222216 | 1.4362218 |
| Residual | | 96 | 0.29398117 | |

| Source | Deg. o | of Freedom | Mean Squares | F Ratio |
|-----------|--------|------------|--------------|------------|
| A (Experi | ence) | 5 | 124.78822 | 1.3409248 |
| B (Subjec | t) | 1 | 37.989941 | 0.40822486 |
| AB | • | 5 | 217.35258 | 2.3355848* |
| Residual | | 96 | 93.061311 | |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 1D, "Is Accurate"

Analysis Using Raw Scores

| Source | Deg. o | f Freedom | Mean Squares | F Ratio |
|-----------|--------|-----------|--------------|------------|
| A (Experi | ence) | 5 | 0.4222238 | 1.8424270 |
| B (Subjec | t) | 1 | 0.14814785 | 0.64646407 |
| AB | | 5 | 0.28148138 | 1,2282838 |
| Residual | | 96 | 0.22916641 | |

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|------------|-----------------|------------|-------------------|------------|
| A (Experie | ence) | 5 · | 193.96140 | 2.5687379* |
| B (Subject | :) _. | 1 | 14.246215 | 0.18867049 |
| AB | | 5 | 129.15431 | 1.7104619 |
| Resi.dual | | 96 | 75.5- 9442 | |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 1E, "Is Punctual"

Analysis Using Raw Scores

| Source | Deg. of I | Freedom | Mean Squares | F Ratio |
|-------------|-----------|---------|--------------|------------|
| A (Experi | ence) | 5 | 0.37222212 | 1.4230102 |
| B (Subjec | t) | 1 | 0.23148102 | 0.88495505 |
| . AB | | 5 | 0.20925936 | 0.80000135 |
| Residual | | 96 | 0.26157376 | |

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|------------|-------|------------|--------------|------------|
| A (Experie | ence) | 5 | 130.69215 | 1.5336608 |
| B (Subject | :) | 1 | 22.665478 | 0.26597737 |
| AB | | 5 | 106.14349 | 1.2455844 |
| Residua1 | | 96 | 85.215813 | • |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 1F, "Takes Necessary and Appropariate Action On His Own"

Analysis Using Raw Scores

| Source Deg. | of Freedom | Mean Squares | F Ratio |
|----------------|------------|--------------|---------------------|
| A (Experience) | 5 | 0.87592590 | 3. 5698162** |
| B (Subject) | 1 | 0.74999850 | 3.0566019 |
| ÁB | 5 | 0.41666660 | 1.6981153 |
| Residual | 96 | 0.24547003 | |

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|-----------|-------|------------|--------------|------------|
| A (Experi | ence) | 5 | 246.51558 | 1.5016974 |
| B (Subjec | t). | 1 | 116.50712 | 1.5016974 |
| AB | • | 5 | 214.22718 | 2.7612323* |
| Residual | • | 96 | 77.584619 | |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 1G, "Is Dedicated to His Profession"

Analysis Using Raw Scores

| Source | Deg. of | Freedom | Mean Squares | F Ratio |
|-----------|---------|---------|--------------|------------|
| A (Experi | ence) | 5 | 0.67592610 | 3.1739156* |
| B (Subjec | t) | 1 | 0.23148185 | 1.0869595 |
| AB | | 5 | 0.36481466 | 1.7130448 |
| Residual | | 96 | 0.21296271 | |

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|------------|-------|------------|--------------|------------|
| A (Experie | ence) | 5 | 193.85881 | 2.2353255 |
| B (Subject | =) | 1 | 40.719326 | 0.46952184 |
| AB | •• | 5 | 240.59736 | 2.7742531* |
| Residual | - | 96 | 86.725094 | |



^{*} Significant at .05 level

^{**} Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 2A, "Is Respected By Pupils"

Analysis Using Raw Scores

| Source | Deg. of Fr | eedom Mean | Squares F | Ratio |
|-----------------|------------|------------|----------------|-----------|
| A (Experi | ence) 5 | 0.93 | 3703690 3 | .0644104* |
| B (Subjec | t) 1 | 0.33 | 3333367 1 | .2203419 |
| AB | 5 | 0.42 | 222224 1 | • 5457649 |
| Residual | 9 | 6 0.27 | '314778 | |

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|-------------|-------|------------|-------------------|-------------|
| A (Experie | ence) | 5 | 219.2 8998 | 2.4442771* |
| B (Subjec | t) | 1 | 6.1608540 | 0.068670873 |
| AB . | | 5 | 185.67744 | 2.0696209 |
| Residual | | 96 | 89.715679 | |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 2B, "Is Responsible and Depandable"

Analysis Using Raw Scores

| Source | Deg. o | f Freedom | Mean Squares | F Ratio |
|-----------|--------|-----------|--------------|------------|
| A (Experi | ence) | 5 | 0.46666678 | 2.0160025 |
| B (Subjec | t) | 1 | 0.14814852 | 0.64000225 |
| AB | | 5 | 0.25925926 | 1.1200011 |
| Residual | • | 96 | 0.23148125 | |

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|------------|-------|------------|--------------|------------|
| A (Experi | ence) | 5 | 208.31186 | 2.4839390 |
| B (Subject | t) | 1 | 17.708213 | 0.21115514 |
| AB | • | 5 | 133.92800 | 1.5969757 |
| Residual | | 96 | 83.863517 | |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 2C, "Is Friendly, Understanding, Sympathetic with Community, Other Staff Members & Administration

Analysis Using Raw Scores

| Source | Deg. of | f Freedom | Mean Squares | F Ratio |
|------------|---------|-----------|--------------|------------|
| A (Experie | ence) | 5 | 0.53333348 | 2.0210559 |
| B (Subjec | t) | 1 | 0.33333267 | 1.2631571 |
| AB | | 5 | 0.13333349 | 0.50526442 |
| Residual | | 96 | 0.26388854 | |

| Source | Deg. o | f Freedom | Mean Squares | F Ratio |
|------------|--------|-----------|--------------|-------------------|
| A (Experie | ence) | 5 | 153.72350 | 1.3 469983 |
| B (Subjec | t) | 1 | 202.39288 | 1.7734625 |
| AB · | | 5 | 129.24198 | 1.1324796 |
| Residual | | 93 | 114.13401 | |

^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 3A, "Knows Subject Matter"

Analysis Using Raw Scores

| Source | Deg. of Freedom | Mean Squares | F Ratio |
|-------------|-----------------|--------------|------------|
| A (Experien | nce) 5 | 0.261111128 | 1.0444464 |
| B (Subject) | 1 | 0.23148102 | 0.92592519 |
| AB | 5 | 0.14259263 | 0.57037120 |
| Residual | 96 | 0.2499970 | |

| Source | Deg. o | f Freedom | Mean Squares | F Ratio |
|------------|-------------|-----------|--------------|------------|
| A (Experie | nce) | 5 | 83.921602 | 1.741005 |
| B (Subject | :); | 1 | 22.443465 | 0.28759336 |
| AB | • | 5 | 55.379052 | 0.70963408 |
| Residual | | 96 | 78.038885 | |



^{*} Significant at .05 level

^{**} Sigificant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 3B, "Takes Action to Improve Himself"

Analysis Using Raw Scores

| Source | Deg. c | of Freedom | Mean Squares | F Ratio |
|------------|--------|------------|--------------|------------|
| A (Experie | ence) | 5 | 0.12037034 | 0.47706470 |
| B (Subjec | t) | 1 | 0.23148102 | 0.91743051 |
| AB | | 5 | 0.075025002 | 0.30091811 |
| Residual | | 96 | 0.25231450 | |

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|------------|-------------|------------|--------------|------------|
| A (Experie | ence) | 5 | 74.074386 | 0.75215856 |
| B (Subject | :) . | 1 | 69.278490 | 0.70346056 |
| AB | • | 5 | 49.828518 | 0.50596364 |
| Residual | | 96 | 98.482408 | |



^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 3C, "Uses Instructional Materials and Lesson Plans Effectively"

Analysis Using Raw Scores

| Source Deg. | of Freedom | Mean Squares | F Ratio |
|----------------|------------|--------------------|------------|
| A (Experience) | 5 | 0.68148152 | 2.5824596* |
| B (Subject) | 1 | 0.33333267 | 1.2631570 |
| AB | 5 | 0.3555554 | 1.3473701 |
| Residual | 96 | 0.263 88855 | |

| Source | Deg. | of Freedom | Mean Squares | F Ratio |
|------------|------------|------------|--------------|------------|
| A (Experie | ence) | 5 | 184.37499 | 2.5006512* |
| B (Subject | :) | 1 | 33.607127 | 0.45580857 |
| AB | •• | 5 | 146.07986 | 1.9812599 |
| Residual | | 96 | 73.730792 | |

^{*} Significant at .05 level

^{**} Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 3D, "Develops Pupil Interest and Eagerness To Learn"

Analysis Using Raw Scores

| Source | Deg. o | f Freedom | Mean Squares | F Ratio |
|-----------|--------|-----------|--------------|-----------|
| A (Experi | ence) | 5 | 0.62222220 | 2.2032808 |
| B (Subjec | t) | 1 | 0.92592743 | 3.2786971 |
| АВ | | 5 . | 0.50370396 | 1.7836092 |
| Residual | | 96 | 0.28240713 | |

| A (Experience) | 5 | 173.3 0770 | 2.2613196 |
|----------------|----|-------------------|------------|
| B (Subject) | 1 | 135.69261 | 1.7705178 |
| AB | 5 | 232.11296 | 3.0286109* |
| Residual | 96 | 76.640072 | |



^{*} Significant at .05 level

^{**} Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 3E, "Maintains Pupil Control"

Analysis Using Raw Scores

| Source De | g. of Freedom | Mean Squares | F Ratio |
|---------------|---------------|--------------------|-------------|
| A (Experience |) 5 | 0.83 888890 | 2.8312533* |
| B (Subject) | . 1 | 0.0092592405 | 0.031249972 |
| AB | 5 · | 0.45370362 | 1.5312515 |
| Residual | 96 | 0.29629596 | |

| Source | Deg. c | f Freedom | Mean Squares | F Ratio |
|------------|------------|-----------|-------------------|------------|
| A (Experie | ence) | 5 | 247.53608 | 2.9196539* |
| B (Subject | :) | 1 | 17.048938 | 0.20108987 |
| АВ | ••• | 5 | 223.05882 | 2.6309480* |
| Residual | | 96 | 84.7 82678 | |

^{*} Significant at .05 level ** Significant at .01 level

Analysis of Variance Source Tables for Analyses Using Item 3F, "Uses Material in Cumulative Folder"

Analysis Using Raw Scores

| Source | Deg. o | f Freedom | Mean Squares | F Ratio |
|-----------|--------|-----------|--------------|-------------|
| A (Experi | ience) | 5 | 0.15555551 | 0.93333517 |
| B (Subjec | et) | 1 | 1.3333307 | 8.9999923** |
| AB | | 5 . | 0.1111115 | 0.6666841 |
| Residual | | 96 | 0.16666629 | |

| A (Experience) | 5 | 23.730792 | 0.37803555 |
|----------------|----|-----------|------------|
| B (Subject) | 1. | 273.73844 | 4.3606999* |
| АВ | 5 | 65.142854 | 1.0377367 |
| Residual : | 96 | 63.773969 | · |



^{*} Significant at .05 level ** Significant at .01 level